

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L23/58

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/43147 A (JANKE MARCUS ; INFINEON TECHNOLOGIES AG (DE)) 30 May 2002 (2002-05-30) page 1, line 12 - page 6, line 2 page 6, line 7 - page 9, line 5; figures 1a,1b -----	1-14
P, X	WO 2004/038800 A (BAUKUS JAMES P ; CHOW LAP-WAI (US); YANG PAUL OU (US); CLARK WILLIAM M) 6 May 2004 (2004-05-06) page 1, lines 13-18 page 3, lines 19-26 page 5, lines 13-24 page 6, lines 6-20 page 7, line 20 - page 10, line 2; figures 3-6 page 10, line 24 - page 12, line 10 ----- -/-	1-14

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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Date of the actual completion of the International search

Date of mailing of the International search report

20 October 2004

03/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Corchia, A

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/051117

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 137 318 A (KODAMA TAKAAKI) 24 October 2000 (2000-10-24) column 3, line 66 - column 5, line 49; figures 11A, 11B column 6, line 36 - column 9, line 12 column 13, line 15 - column 14, line 45; figures 3, 4A, 4B column 16, lines 3-58; figure 6 column 17, line 38 - column 18, line 55; figures 8A-8C column 19, line 5 - column 20, line 6 -----	1-14
A	US 2002/024148 A1 (ITOH NIICHI) 28 February 2002 (2002-02-28) paragraphs '0006! - '0014! paragraphs '0039! - '0045!; figure 12 paragraphs '0050! - '0084!; figures 2-11 -----	1-14

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/IB2004/051117

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0243147	A 30-05-2002	DE 10058078 C1 BR 0115535 A CN 1476635 T WO 0243147 A1 EP 1336201 A1 JP 2004514299 T US 2003205816 A1		11-04-2002 03-02-2004 18-02-2004 30-05-2002 20-08-2003 13-05-2004 06-11-2003
WO 2004038800	A 06-05-2004	US 2004119165 A1 WO 2004038800 A2		24-06-2004 06-05-2004
US 6137318	A 24-10-2000	NONE		
US 2002024148	A1 28-02-2002	JP 2002076118 A TW 502373 B		15-03-2002 11-09-2002